



Western Region Annual HIV Epidemiological Profile

Data reported through June 30, 2018



Center for HIV Surveillance, Epidemiology and Evaluation Infectious Disease Prevention and Health Services Bureau MARYLAND

Department of Health

Infectious Disease Prevention and Health Service

Prevention and Health Promotion Administration

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This report was prepared by the following CHSEE staff: Alyssa Arey, Morgan Boyer, James Carrier, Colin Flynn, Molly Gribbin, Veronica Hart, Trevor Hsu and Jami Stockdale.

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Section I - Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g.,
 positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV
 genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is
 located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4
 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of
 Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.5 percent for the United States and 14.0 percent for Maryland in 2015. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2016. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of December 31, 2017. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during

the most recent nine and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

This epidemiological profile contains data for transgender HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. Historically, it has been difficult to fully present data by current gender identification. Data on transgender people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number transgender HIV and AIDS cases because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Lastly, the completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial HIV and AIDS cases because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and

previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a sixmonth lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2017 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during January 1, 2017 through December 31, 2017, as reported by name through June 30, 2018.

To calculate the number of Living Cases we count all Reported Diagnoses from the beginning of the epidemic (all new cases each year) and subtract all Reported Deaths. For example, the Total Living HIV Cases on December 31, 2017 are the total reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of June 30, 2018 as reported by name through June 30, 2018.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14 percent. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, June 30, 2018.

Population data by sex, age, and race/ethnicity are from the July 1, 2017 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2016 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from the Centers for Disease Control and Prevention's HIV Surveillance Supplemental Report published March 2018. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

<u>Male-to-male Sexual Contact (MSM):</u> Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

<u>Injection Drug Use (IDU)</u>: Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

<u>Heterosexual Contact (HET)</u>: Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

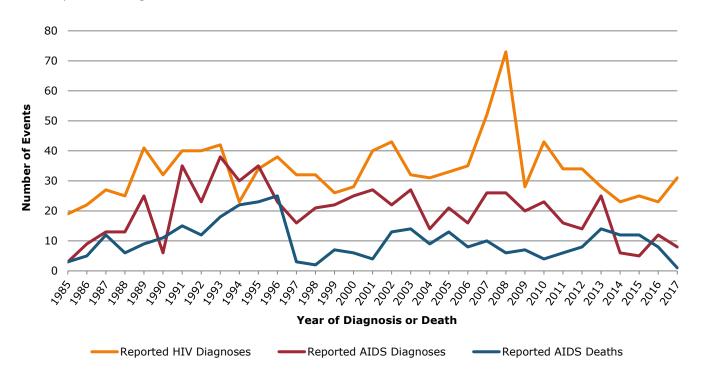
<u>Other Exposure</u>: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II - Trends 1985-2017

<u>Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018</u>

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2017 as Reported through June 30, 2018

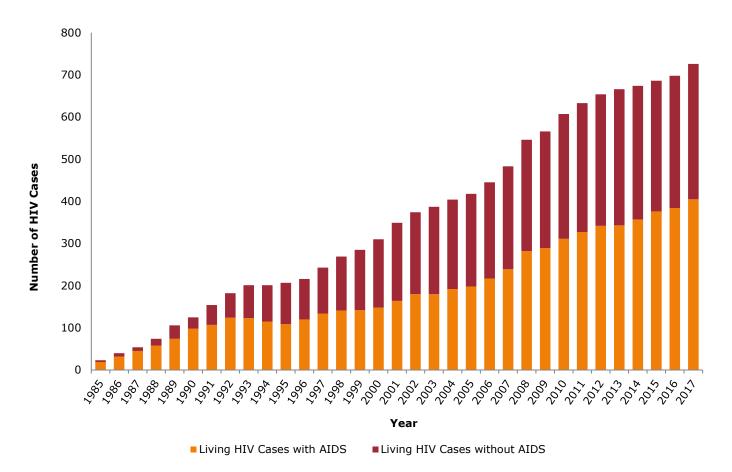


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	9	5	1	2001	40	27	4
1985	19	3	3	2002	43	22	13
1986	22	9	5	2003	32	27	14
1987	27	13	12	2004	31	14	9
1988	25	13	6	2005	33	21	13
1989	41	25	9	2006	35	16	8
1990	32	6	11	2007	52	26	10
1991	40	35	15	2008	73	26	6
1992	40	23	12	2009	28	20	7
1993	42	38	18	2010	43	23	4
1994	23	30	22	2011	34	16	6
1995	34	35	23	2012	34	14	8
1996	38	23	25	2013	28	25	14
1997	32	16	3	2014	23	6	12
1998	32	21	2	2015	25	5	12
1999	26	22	7	2016*	23	12	8
2000	28	25	6	2017*	31	8	1
				Total	1,118	650	329

^{*2016-2017} reported AIDS deaths are preliminary

<u>Figure 2 – Trends in Living HIV Cases, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018</u>

Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2017, as Reported through June 30, 2018

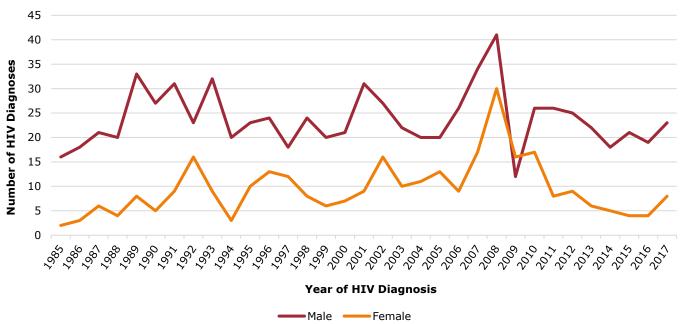


Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases	Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases
1985	19	4	23	2002	180	194	374
1986	32	8	40	2003	180	207	387
1987	45	9	54	2004	192	212	404
1988	58	16	74	2005	198	220	418
1989	74	32	106	2006	217	228	445
1990	98	27	125	2007	239	244	483
1991	107	47	154	2008	282	264	546
1992	124	58	182	2009	289	277	566
1993	123	78	201	2010	311	296	607
1994	115	86	201	2011	327	306	633
1995	109	98	207	2012	342	312	654
1996	120	96	216	2013	343	323	666
1997	134	109	243	2014	357	317	674
1998	141	128	269	2015	376	310	686
1999	142	143	285	2016	384	314	698
2000	148	162	310	2017	405	321	726
2001	164	185	349				

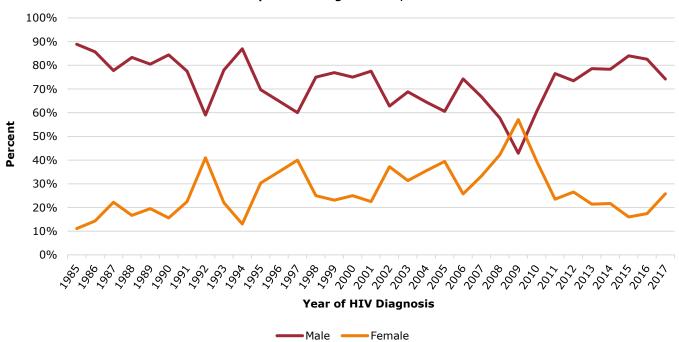
<u>Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth,</u> among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018





Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2017, Reported through June 30, 2018



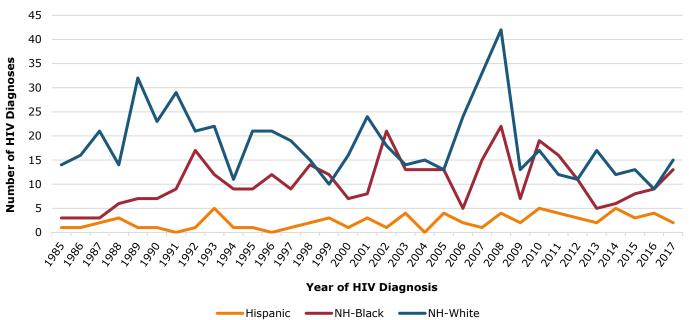
Adult/Adolescent Reported HIV Diagnoses

Voor of HTV Diagnosis		Sex at Birth							
Year of HIV Diagnosis	No.	Male		Female					
		No.	%	No.	%				
<1985	9	9	100.0%	0	0.0%				
1985	18	16	88.9%	2	11.1%				
1986	21	18	85.7%	3	14.3%				
1987	27	21	77.8%	6	22.2%				
1988	24	20	83.3%	4	16.7%				
1989	41	33	80.5%	8	19.5%				
1990	32	27	84.4%	5	15.6%				
1991	40	31	77.5%	9	22.5%				
1992	39	23	59.0%	16	41.0%				
1993	41	32	78.0%	9	22.0%				
1994	23	20	87.0%	3	13.0%				
1995	33	23	69.7%	10	30.3%				
1996	37	24	64.9%	13	35.1%				
1997	30	18	60.0%	12	40.0%				
1998	32	24	75.0%	8	25.0%				
1999	26	20	76.9%	6	23.1%				
2000	28	21	75.0%	7	25.0%				
2001	40	31	77.5%	9	22.5%				
2002	43	27	62.8%	16	37.2%				
2003	32	22	68.8%	10	31.3%				
2004	31	20	64.5%	11	35.5%				
2005	33	20	60.6%	13	39.4%				
2006	35	26	74.3%	9	25.7%				
2007	51	34	66.7%	17	33.3%				
2008	71	41	57.7%	30	42.3%				
2009	28	12	42.9%	16	57.1%				
2010	43	26	60.5%	17	39.5%				
2011	34	26	76.5%	8	23.5%				
2012	34	25	73.5%	9	26.5%				
2013	28	22	78.6%	6	21.4%				
2014	23	18	78.3%	5	21.7%				
2015	25	21	84.0%	4	16.0%				
2016	23	19	82.6%	4	17.4%				
2017	31	23	74.2%	8	25.8%				
Total	1,106	793	71.7%	313	28.3%				

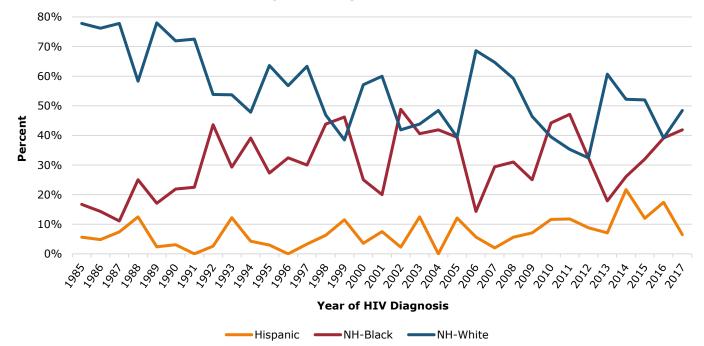
<u>Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity,</u> among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018





Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2017, Reported through June 30, 2018

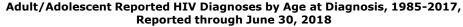


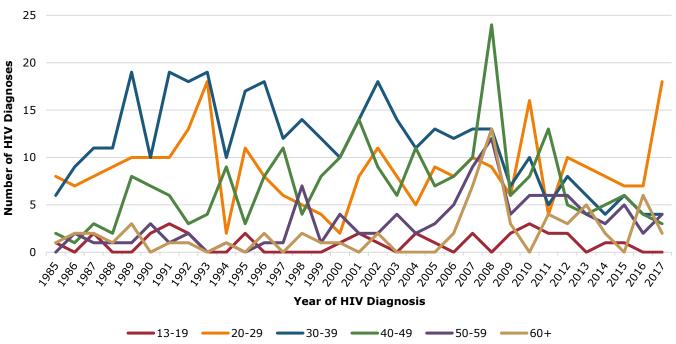
Non-Hispanic Other race not shown

Page				Adult/Ad	olescent Re	ported HIV	Diagnoses						
No. No.													
<1985		No.	Hispanic					•					
1985 18 1 5.6% 3 16.7% 14 77.8% 0 0.0% 1986 21 1 4.8% 3 14.3% 16 76.2% 1 4.8% 1987 27 2 7.4% 3 11.1% 21 77.8% 1 3.7% 1988 24 3 12.5% 6 25.0% 14 58.3% 1 4.2% 1989 41 1 2.4% 7 17.1% 32 78.0% 1 2.4% 1990 32 1 3.1% 7 21.9% 23 71.9% 1 3.1% 1991 40 0 0.0% 9 22.5% 29 72.5% 2 5.0% 1992 39 1 2.6% 17 43.6% 21 53.8% 0 0.0% 1993 41 5 12.2% 12 29.3% 22 53.7% 2 4.9% <th></th> <th></th> <th>No.</th> <th>%</th> <th>No.</th> <th>%</th> <th>No.</th> <th>%</th> <th>No.</th> <th>%</th>			No.	%	No.	%	No.	%	No.	%			
1986 21 1 4.8% 3 14.3% 16 76.2% 1 4.8% 1987 27 2 7.4% 3 11.1% 21 77.8% 1 3.7% 1988 24 3 12.5% 6 25.0% 14 58.3% 1 4.2% 1990 32 1 3.1% 7 21.9% 23 71.9% 1 3.1% 1991 40 0 0.0% 9 22.5% 29 72.5% 2 5.0% 1992 39 1 2.6% 17 43.6% 21 53.8% 0 0.0% 1993 41 5 12.2% 12 29.3% 22 53.7% 2 4.9% 1994 23 1 4.3% 9 39.1% 11 47.8% 2 8.7% 1995 33 1 3.0% 9 27.3% 21 63.6% 4 10.8% <td><1985</td> <td>9</td> <td>0</td> <td>0.0%</td> <td>3</td> <td>33.3%</td> <td>5</td> <td>55.6%</td> <td>1</td> <td>11.1%</td>	<1985	9	0	0.0%	3	33.3%	5	55.6%	1	11.1%			
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1988 24 3 12.5% 6 25.0% 14 58.3% 1 4.2% 1989 41 1 2.4% 7 17.1% 32 78.0% 1 2.4% 1990 32 1 3.1% 7 21.9% 23 71.9% 1 3.1% 1991 40 0 0.0% 9 22.5% 29 72.5% 2 5.0% 1992 39 1 2.6% 17 43.6% 21 53.8% 0 0.0% 1993 41 5 12.2% 12 29.3% 22 53.7% 2 4.9% 1994 23 1 4.3% 9 39.1% 11 47.8% 2 8.7% 1995 33 1 3.0% 9 27.3% 21 63.6% 2 6.1% 4 10.8% 1996 37 0 0.0% 12 32.4% 21 56.8% </th <td>1986</td> <td>21</td> <td>1</td> <td>4.8%</td> <td>3</td> <td>14.3%</td> <td>16</td> <td>76.2%</td> <td>1</td> <td>4.8%</td>	1986	21	1	4.8%	3	14.3%	16	76.2%	1	4.8%			
1989 41 1 2.4% 7 17.1% 32 78.0% 1 2.4% 1990 32 1 3.1% 7 21.9% 23 71.9% 1 3.1% 1991 40 0 0.0% 9 22.5% 29 77.5% 2 5.0% 1992 39 1 2.6% 17 43.6% 21 53.8% 0 0.0% 1993 41 5 12.2% 12 29.3% 22 53.7% 2 4.9% 1994 23 1 4.3% 9 39.1% 11 47.8% 2 8.7% 1995 33 1 3.0% 9 27.3% 21 63.6% 2 6.1% 1996 37 0 0.0% 12 32.4% 21 56.8% 4 10.8% 1997 30 1 3.3% 9 30.0% 19 63.3% 1 3.3% <td>1987</td> <td>27</td> <td>2</td> <td>7.4%</td> <td>3</td> <td>11.1%</td> <td>21</td> <td>77.8%</td> <td>1</td> <td>3.7%</td>	1987	27	2	7.4%	3	11.1%	21	77.8%	1	3.7%			
1990 32 1 3.1% 7 21.9% 23 71.9% 1 3.1% 1991 40 0 0.0% 9 22.5% 29 72.5% 2 5.0% 1992 39 1 2.6% 17 43.6% 21 53.8% 0 0.0% 1993 41 5 12.2% 12 29.3% 22 53.7% 2 4.9% 1994 23 1 4.3% 9 39.1% 11 47.8% 2 8.7% 1995 33 1 3.0% 9 27.3% 21 63.6% 2 6.1% 1996 37 0 0.0% 12 32.4% 21 56.8% 4 10.8% 1997 30 1 3.3% 9 30.0% 19 63.3% 1 3.3% 1997 30 1 3.3% 9 30.0% 19 63.3% 1 3.1% <td>1988</td> <td>24</td> <td>3</td> <td>12.5%</td> <td>6</td> <td>25.0%</td> <td>14</td> <td>58.3%</td> <td>1</td> <td>4.2%</td>	1988	24	3	12.5%	6	25.0%	14	58.3%	1	4.2%			
1991 40 0 0.0% 9 22.5% 29 72.5% 2 5.0% 1992 39 1 2.6% 17 43.6% 21 53.8% 0 0.0% 1993 41 5 12.2% 12 29.3% 22 53.7% 2 4.9% 1994 23 1 4.3% 9 39.1% 11 47.8% 2 8.7% 1995 33 1 3.0% 9 27.3% 21 63.6% 2 6.1% 1996 37 0 0.0% 12 32.4% 21 56.8% 4 10.8% 1997 30 1 3.3% 9 30.0% 19 63.3% 1 3.3% 1998 32 2 6.3% 14 43.8% 15 46.9% 1 3.1% 2000 28 1 3.6% 7 25.0% 16 57.1% 4 14.3%<	1989	41	1	2.4%	7	17.1%	32	78.0%	1	2.4%			
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1993 41 5 12.2% 12 29.3% 22 53.7% 2 4.9% 1994 23 1 4.3% 9 39.1% 11 47.8% 2 8.7% 1995 33 1 3.0% 9 27.3% 21 63.6% 2 6.1% 1996 37 0 0.0% 12 32.4% 21 56.8% 4 10.8% 1997 30 1 3.3% 9 30.0% 19 63.3% 1 3.3% 1998 32 2 6.3% 14 43.8% 15 46.9% 1 3.1% 1999 26 3 11.5% 12 46.2% 10 38.5% 1 3.8% 2000 28 1 3.6% 7 25.0% 16 57.1% 4 14.3% 2001 40 3 7.5% 8 20.0% 24 60.0% 5 12.5	1991	40	0	0.0%	9	22.5%	29	72.5%	2	5.0%			
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1998 32 2 6.3% 14 43.8% 15 46.9% 1 3.1% 1999 26 3 11.5% 12 46.2% 10 38.5% 1 3.8% 2000 28 1 3.6% 7 25.0% 16 57.1% 4 14.3% 2001 40 3 7.5% 8 20.0% 24 60.0% 5 12.5% 2002 43 1 2.3% 21 48.8% 18 41.9% 3 7.0% 2003 32 4 12.5% 13 40.6% 14 43.8% 1 3.1% 2004 31 0 0.0% 13 41.9% 15 48.4% 3 9.7% 2005 33 4 12.1% 13 39.4% 13 39.4% 3 9.1% 2006 35 2 5.7% 5 14.3% 24 68.6% 4 1	1996	37	0	0.0%	12	32.4%	21	56.8%	4	10.8%			
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2000 28 1 3.6% 7 25.0% 16 57.1% 4 14.3% 2001 40 3 7.5% 8 20.0% 24 60.0% 5 12.5% 2002 43 1 2.3% 21 48.8% 18 41.9% 3 7.0% 2003 32 4 12.5% 13 40.6% 14 43.8% 1 3.1% 2004 31 0 0.0% 13 41.9% 15 48.4% 3 9.7% 2005 33 4 12.1% 13 39.4% 13 39.4% 3 9.1% 2006 35 2 5.7% 5 14.3% 24 68.6% 4 11.4% 2007 51 1 2.0% 15 29.4% 33 64.7% 2 3.9% 2008 71 4 5.6% 22 31.0% 42 59.2% 3 4	1998	32	2	6.3%	14	43.8%	15	46.9%	1	3.1%			
2001 40 3 7.5% 8 20.0% 24 60.0% 5 12.5% 2002 43 1 2.3% 21 48.8% 18 41.9% 3 7.0% 2003 32 4 12.5% 13 40.6% 14 43.8% 1 3.1% 2004 31 0 0.0% 13 41.9% 15 48.4% 3 9.7% 2005 33 4 12.1% 13 39.4% 13 39.4% 3 9.1% 2006 35 2 5.7% 5 14.3% 24 68.6% 4 11.4% 2007 51 1 2.0% 15 29.4% 33 64.7% 2 3.9% 2008 71 4 5.6% 22 31.0% 42 59.2% 3 4.2% 2009 28 2 7.1% 7 25.0% 13 46.4% 6 21	1999	26	3	11.5%	12	46.2%	10	38.5%	1	3.8%			
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2003 32 4 12.5% 13 40.6% 14 43.8% 1 3.1% 2004 31 0 0.0% 13 41.9% 15 48.4% 3 9.7% 2005 33 4 12.1% 13 39.4% 13 39.4% 3 9.1% 2006 35 2 5.7% 5 14.3% 24 68.6% 4 11.4% 2007 51 1 2.0% 15 29.4% 33 64.7% 2 3.9% 2008 71 4 5.6% 22 31.0% 42 59.2% 3 4.2% 2009 28 2 7.1% 7 25.0% 13 46.4% 6 21.4% 2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 <t< th=""><td>2001</td><td>40</td><td>3</td><td>7.5%</td><td>8</td><td>20.0%</td><td>24</td><td>60.0%</td><td>5</td><td>12.5%</td></t<>	2001	40	3	7.5%	8	20.0%	24	60.0%	5	12.5%			
2004 31 0 0.0% 13 41.9% 15 48.4% 3 9.7% 2005 33 4 12.1% 13 39.4% 13 39.4% 3 9.1% 2006 35 2 5.7% 5 14.3% 24 68.6% 4 11.4% 2007 51 1 2.0% 15 29.4% 33 64.7% 2 3.9% 2008 71 4 5.6% 22 31.0% 42 59.2% 3 4.2% 2009 28 2 7.1% 7 25.0% 13 46.4% 6 21.4% 2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 <td< th=""><td>2002</td><td>43</td><td>1</td><td>2.3%</td><td>21</td><td>48.8%</td><td>18</td><td>41.9%</td><td>3</td><td>7.0%</td></td<>	2002	43	1	2.3%	21	48.8%	18	41.9%	3	7.0%			
2005 33 4 12.1% 13 39.4% 13 39.4% 3 9.1% 2006 35 2 5.7% 5 14.3% 24 68.6% 4 11.4% 2007 51 1 2.0% 15 29.4% 33 64.7% 2 3.9% 2008 71 4 5.6% 22 31.0% 42 59.2% 3 4.2% 2009 28 2 7.1% 7 25.0% 13 46.4% 6 21.4% 2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 1 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 <td< th=""><td>2003</td><td>32</td><td>4</td><td>12.5%</td><td>13</td><td>40.6%</td><td>14</td><td>43.8%</td><td>1</td><td>3.1%</td></td<>	2003	32	4	12.5%	13	40.6%	14	43.8%	1	3.1%			
2006 35 2 5.7% 5 14.3% 24 68.6% 4 11.4% 2007 51 1 2.0% 15 29.4% 33 64.7% 2 3.9% 2008 71 4 5.6% 22 31.0% 42 59.2% 3 4.2% 2009 28 2 7.1% 7 25.0% 13 46.4% 6 21.4% 2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0	2004	31	0	0.0%	13	41.9%	15	48.4%	3	9.7%			
2007 51 1 2.0% 15 29.4% 33 64.7% 2 3.9% 2008 71 4 5.6% 22 31.0% 42 59.2% 3 4.2% 2009 28 2 7.1% 7 25.0% 13 46.4% 6 21.4% 2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9	2005	33	4	12.1%	13	39.4%	13	39.4%	3	9.1%			
2008 71 4 5.6% 22 31.0% 42 59.2% 3 4.2% 2009 28 2 7.1% 7 25.0% 13 46.4% 6 21.4% 2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15	2006	35	2	5.7%	5	14.3%	24	68.6%	4	11.4%			
2009 28 2 7.1% 7 25.0% 13 46.4% 6 21.4% 2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2007	51	1	2.0%	15	29.4%	33	64.7%	2	3.9%			
2010 43 5 11.6% 19 44.2% 17 39.5% 2 4.7% 2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2008	71	4	5.6%	22	31.0%	42	59.2%	3	4.2%			
2011 34 4 11.8% 16 47.1% 12 35.3% 2 5.9% 2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2009	28	2	7.1%	7	25.0%	13	46.4%	6	21.4%			
2012 34 3 8.8% 11 32.4% 11 32.4% 9 26.5% 2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2010	43	5	11.6%	19	44.2%	17	39.5%	2	4.7%			
2013 28 2 7.1% 5 17.9% 17 60.7% 4 14.3% 2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2011	34	4	11.8%	16	47.1%	12	35.3%	2	5.9%			
2014 23 5 21.7% 6 26.1% 12 52.2% 0 0.0% 2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2012	34	3	8.8%	11	32.4%	11	32.4%	9	26.5%			
2015 25 3 12.0% 8 32.0% 13 52.0% 1 4.0% 2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2013	28	2	7.1%	5	17.9%	17	60.7%	4	14.3%			
2016 23 4 17.4% 9 39.1% 9 39.1% 1 4.3% 2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2014	23	5	21.7%	6	26.1%	12	52.2%	0	0.0%			
2017 31 2 6.5% 13 41.9% 15 48.4% 1 3.2%	2015	25	3	12.0%	8	32.0%	13	52.0%	1	4.0%			
	2016	23	4	17.4%	9	39.1%	9	39.1%	1	4.3%			
Total 1,106 73 6.6% 346 31.3% 612 55.3% 75 6.8%	2017	31	2	6.5%	13	41.9%	15	48.4%	1	3.2%			
	Total	1,106	73	6.6%	346	31.3%	612	55.3%	75	6.8%			

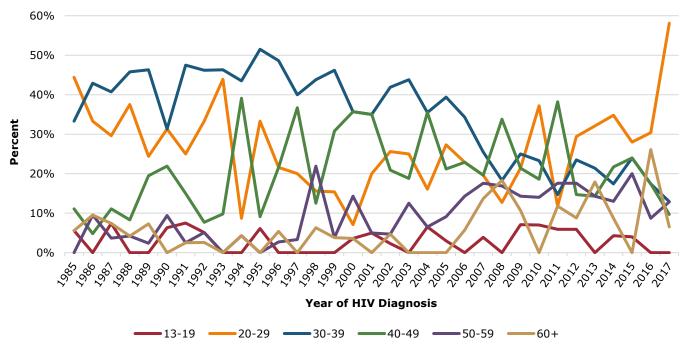
<u>Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis,</u> among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018





Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2017, Reported through June 30, 2018



Adult/Adolescent Reported HIV Diagnoses Age at HIV Diagnosis Year of HIV **Diagnosis** Age 30-39 Age 60+ No. Age 13-19 Age 20-29 Age 40-49 Age 50-59 % % No. No. % No. No. No. % No. % % 9 0.0% 44.4% 4 44.4% 11.1% 0.0% 0 0.0% 0 4 1 0 <1985 33.3% 0.0% 5.6% 18 1 5.6% 8 44.4% 6 2 11.1% 0 1 1985 21 0 0.0% 7 33.3% 9 42.9% 1 4.8% 2 9.5% 2 9.5% 1986 27 2 7.4% 8 29.6% 40.7% 3 11.1% 3.7% 2 7.4% 11 1 1987 45.8% 2 24 0.0% 9 37.5% 8.3% 4.2% 4.2% 1988 0 11 1 1 41 0.0% 24.4% 19 46.3% 8 19.5% 2.4% 3 7.3% 0 10 1 1989 7 1990 32 2 6.3% 10 31.3% 10 31.3% 21.9% 3 9.4% 0 0.0% 47.5% 7.5% 25.0% 15.0% 2.5% 2.5% 40 3 10 19 6 1 1 1991 39 2 5.1% 13 33.3% 18 46.2% 3 7.7% 2 5.1% 1 2.6% 1992 41 0 0.0% 18 43.9% 19 46.3% 4 9.8% 0 0.0% 0 0.0% 1993 23 0.0% 2 8.7% 43.5% 9 39.1% 4.3% 4.3% 0 10 1 1 1994 33 2 6.1% 11 33.3% 17 51.5% 3 9.1% 0 0.0% 0 0.0% 1995 37 0.0% 48.6% 21.6% 2.7% 5.4% 0 8 21.6% 18 8 1 2 1996 30 0 0.0% 6 20.0% 12 40.0% 11 36.7% 1 3.3% 0 0.0% 1997 32 0 0.0% 5 15.6% 43.8% 4 12.5% 7 21.9% 2 6.3% 14 1998 26 0 0.0% 15.4% 46.2% 8 30.8% 3.8% 3.8% 4 12 1 1999 1 2 35.7% 35.7% 14.3% 28 3.6% 7.1% 10 10 4 3.6% 2000 1 1 20.0% 2 5.0% 40 2 5.0% 8 14 35.0% 14 35.0% 0 0.0% 2001 9 43 1 2.3% 11 25.6% 18 41.9% 20.9% 2 4.7% 2 4.7% 2002 32 0 0.0% 8 25.0% 14 43.8% 6 18.8% 4 12.5% 0 0.0% 2003 31 2 6.5% 5 16.1% 11 35.5% 11 35.5% 2 6.5% 0 0.0% 2004 33 3.0% 9 27.3% 13 39.4% 7 21.2% 3 9.1% 0 0.0% 1 2005 2 5.7% 35 0 0.0% 8 22.9% 12 34.3% 8 22.9% 5 14.3% 2006 51 2 3.9% 10 19.6% 13 25.5% 10 19.6% 9 17.6% 7 13.7% 2007 18.3% 71 0 0.0% 9 12.7% 16.9% 13 13 18.3% 24 33.8% 12 2008 28 2 7.1% 6 21.4% 7 25.0% 6 21.4% 4 14.3% 3 10.7% 2009 0 43 3 7.0% 37.2% 10 23.3% 8 18.6% 14.0% 0.0% 16 6 2010 5.9% 5 14.7% 13 38.2% 17.6% 34 2 4 11.8% 6 4 11.8% 2011 34 2 5 14.7% 3 8.8% 5.9% 10 29.4% 8 23.5% 6 17.6% 2012 28 0 0.0% 9 32.1% 6 21.4% 4 14.3% 4 14.3% 5 17.9% 2013 23 1 4.3% 8 34.8% 4 17.4% 5 21.7% 3 13.0% 2 8.7% 2014 25 4.0% 7 28.0% 24.0% 24.0% 0 0.0% 1 6 6 5 20.0% 2015

23

31

1,106

2016

2017

Total

0

0

32

0.0%

0.0%

2.9%

7

18

288

30.4%

58.1%

26.0%

4

4

381

17.4%

12.9%

34.4%

4

3

233

17.4%

9.7%

21.1%

2

4

105

8.7%

12.9%

9.5%

6

2

67

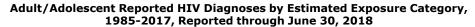
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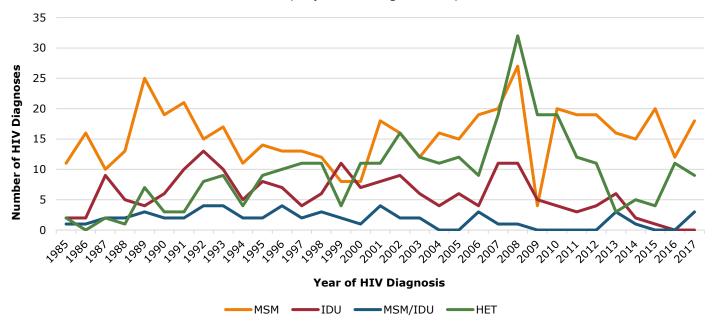
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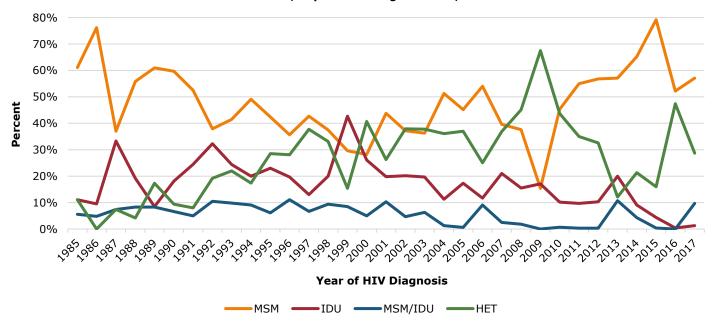
<u>Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated</u> <u>Exposure Category, among Residents at Diagnosis, 1985-2017, Reported through</u> June 30, 2018

Number and Percent by Estimated Exposure Category[§] of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018





Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2017, Reported through June 30, 2018



Other exposure category not shown

§ Multiple imputation was used to estimate and adjust for missing transmission category.

				Adult/	Adolesce	ent Repo	rted HIV	Diagnos	es			
Year of		% with				Estima	ited Expo	sure Cat	egory§			
HIV Diagnosis	No.	No Reported	MS	5M	10	υ	MSM	/IDU	H	ET	Otl Expo	
213.1.00.0		Exposure [¥]	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	9	11.1%	6	68.9%	1	11.1%	1	11.1%	1	8.9%	0	0.0%
1985	18	0.0%	11	61.1%	2	11.1%	1	5.6%	2	11.1%	2	11.1%
1986	21	0.0%	16	76.2%	2	9.5%	1	4.8%	0	0.0%	2	9.5%
1987	27	0.0%	10	37.0%	9	33.3%	2	7.4%	2	7.4%	4	14.8%
1988	24	4.2%	13	55.8%	5	19.2%	2	8.3%	1	4.2%	3	12.5%
1989	41	9.8%	25	61.0%	4	8.5%	3	8.3%	7	17.3%	2	4.9%
1990	32	6.3%	19	59.7%	6	18.1%	2	6.6%	3	9.4%	2	6.3%
1991	40	2.5%	21	52.5%	10	24.5%	2	5.0%	3	8.0%	4	10.0%
1992	39	7.7%	15	37.9%	13	32.3%	4	10.5%	8	19.2%	0	0.0%
1993	41	0.0%	17	41.5%	10	24.4%	4	9.8%	9	22.0%	1	2.4%
1994	23	4.3%	11	49.1%	5	20.0%	2	9.1%	4	17.4%	1	4.3%
1995	33	3.0%	14	42.4%	8	23.0%	2	6.1%	9	28.5%	0	0.0%
1996	37	8.1%	13	35.7%	7	19.7%	4	11.1%	10	28.1%	2	5.4%
1997	30	6.7%	13	42.7%	4	13.0%	2	6.7%	11	37.7%	0	0.0%
1998	32	6.3%	12	37.5%	6	20.0%	3	9.4%	11	33.1%	0	0.0%
1999	26	15.4%	8	29.6%	11	42.7%	2	8.5%	4	15.4%	1	3.8%
2000	28	10.7%	8	28.2%	7	26.1%	1	5.0%	11	40.7%	0	0.0%
2001	40	12.5%	18	43.8%	8	19.8%	4	10.3%	11	26.3%	0	0.0%
2002	43	14.0%	16	37.2%	9	20.2%	2	4.7%	16	37.9%	0	0.0%
2003	32	6.3%	12	36.3%	6	19.7%	2	6.3%	12	37.8%	0	0.0%
2004	31	16.1%	16	51.3%	4	11.3%	0	1.3%	11	36.1%	0	0.0%
2005	33	27.3%	15	45.2%	6	17.3%	0	0.6%	12	37.0%	0	0.0%
2006	35	17.1%	19	54.0%	4	11.7%	3	9.1%	9	25.1%	0	0.0%
2007	51	45.1%	20	39.6%	11	21.0%	1	2.5%	19	36.9%	0	0.0%
2008	71	52.1%	27	37.6%	11	15.5%	1	1.8%	32	45.1%	0	0.0%
2009	28	50.0%	4	15.4%	5	17.1%	0	0.0%	19	67.5%	0	0.0%
2010	43	39.5%	20	45.3%	4	10.2%	0	0.7%	19	43.7%	0	0.0%
2011	34	29.4%	19	55.0%	3	9.7%	0	0.3%	12	35.0%	0	0.0%
2012	34	14.7%	19	56.8%	4	10.3%	0	0.3%	11	32.6%	0	0.0%
2013	28	17.9%	16	57.1%	6	20.0%	3	10.7%	3	12.1%	0	0.0%
2014	23	8.7%	15	65.2%	2	9.1%	1	4.3%	5	21.3%	0	0.0%
2015	25	8.0%	20	79.2%	1	4.4%	0	0.4%	4	16.0%	0	0.0%
2016	23	4.3%	12	52.2%	0	0.4%	0	0.0%	11	47.4%	0	0.0%
2017	31	9.7%	18	57.1%	0	1.3%	3	9.7%	9	28.7%	1	3.2%
Total	1,106	16.3%	516	46.7%	192	17.3%	62	5.6%	311	28.2%	25	2.3%

[§] Multiple imputation was used to estimate and adjust for missing transmission category

 $\it Note.$ Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation

[¥]Percent with no reported exposure prior to multiple imputation adjustment

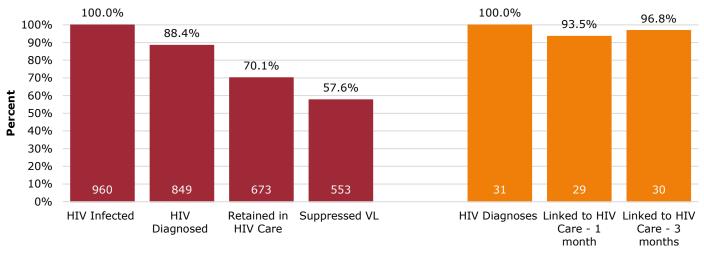
Section III - Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al. utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

<u>Figure 7 - Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of</u> Care Cascades, Current Western Region Residents, Reported through June 30, 2018

The prevalence-based Western Region Engagement in HIV Care Cascade (below) applies the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2018, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of HIV infected persons currently residing in Maryland. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Western Region on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.

Prevalence-Based Estimate of HIV Infected Adult/Adolescent Continuum of Care, 2017



Among current Western Region residents living with HIV

Among 2017 HIV Diagnoses

Continuum of Care Stage	Living F	IIV Cases	Combination of Comp Store	New Diagnoses		
	Number	Percentage	Continuum of Care Stage	Number	Percentage	
HIV Infected	960	100.0%	New HIV Diagnoses	31	100.0%	
HIV Diagnosed	849	88.4%	Linked to HIV Care - 1 Month	29	93.5%	
Retained in HIV Care	673	70.1%	Linked to HIV Care - 3 Months	30	96.8%	
Suppressed VL	553	57.6%				

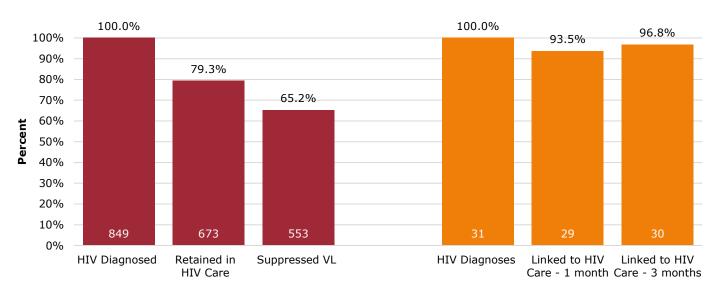
¹ Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 793-800.

²Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published March 2018.

<u>Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care</u> Cascades, Current Western Region Residents, Reported through June 30, 2018

The diagnosis-based Western Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Western Region residents to describe the number and percentage of persons living with HIV in the region on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.

Diagnosis-Based Estimate of HIV Infected Adult/Adolescent Continuum of Care, 2017



Among current Western Region residents diagnosed with HIV

Among 2017 HIV Diagnoses

Continuum of Care Stage	Living H	IIV Cases	Combination of Comp Store	New Diagnoses		
	Number	Percentage	Continuum of Care Stage	Number	Percentage	
HIV Diagnosed	849	100.0%	New HIV Diagnoses	31	100.0%	
Retained in HIV Care	673	79.3%	Linked to HIV Care - 1 Month	29	93.5%	
Suppressed VL	553	65.2%	Linked to HIV Care – 3 Months	30	96.8%	

Section IV - Adult/Adolescent Cases by Jurisdiction

<u>Table 1 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2018</u>

		Adult/Adolescent Reported HIV Diagnoses								
Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	% of		to Care	Late HIV Diagnoses	First CD4 Test Result				
		No.	Total	Rate —	% 1 mo.	% 3 mo.	%	%	Median Count	
Allegany	62,775	4	12.9%	6.4	***	***	***	***	435	
Frederick	211,010	16	51.6%	7.6	100.0%	100.0%	***	87.5%	459	
Garrett	25,457	1	3.2%	3.9	***	***	***	***	365	
Washington	127,071	10	32.3%	7.9	90.0%	100.0%	***	100.0%	493	
Total	426,312	31	100.0%	7.3	93.5%	96.8%	12.9%	93.5%	472	

^{***} Data withheld due to low population counts and/or case counts

<u>Table 2 – Adult/Adolescent AIDS Diagnoses during 2017, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2018</u>

	Adult/Adolescent Reported AIDS Diagnoses									
Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	No.		% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis			
Allegany	62,775	(0	0.0%	0.0					
Frederick	211,010	7	7	87.5%	3.3	***	***			
Garrett	25,457	(0	0.0%	0.0					
Washington	127,071	:	1	12.5%	0.8	***	***			
Total	426,312	8	8	100.0%	1.9	6	37.5%			

^{***} Data withheld due to low population counts and/or case counts

<u>Table 3 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2018</u>

Jurisdiction of	Population	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
Residence at Diagnosis	Age 13+	No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	62,775	39	9.6%	62.1	32	10.0%	51.0	71	9.8%	113.1	884
Frederick	211,010	184	45.4%	87.2	158	49.2%	74.9	342	47.1%	162.1	616
Garrett	25,457	6	1.5%	23.6	4	1.2%	15.7	10	1.4%	39.3	2,545
Washington	127,071	176	43.5%	138.5	127	39.6%	99.9	303	41.7%	238.4	419
Total	426,312	405	100.0%	95.0	321	100.0%	75.3	726	100.0%	170.3	587

<u>Table 4 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2018</u>

		Adult/Adolescent Total Living HIV Cases											
Jurisdiction of	Population	R	esidence a	at Diagnos	sis		•	%					
Residence	Age 13+ -	No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	Change			
Allegany	62,775	71	9.8%	113.1	884	98	11.5%	156.1	640	38.0%			
Frederick	211,010	342	47.1%	162.1	616	410	48.3%	194.3	514	19.9%			
Garrett	25,457	10	1.4%	39.3	2,545	17	2.0%	66.8	1,497	70.0%			
Washington	127,071	303	41.7%	238.4	419	324	38.2%	255.0	392	6.9%			
Total	426,312	726	100.0%	170.3	587	849	100.0%	199.1	502	16.9%			

<u>Table 5 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on</u>
<u>December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30,</u>
2018

		Adult/Adolescent Total Living HIV Cases											
Jurisdiction of Current	Recent CD4 Test Result												
Residence	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+					
Allegany	98	88	89.8%	658	5.7%	12.5%	9.1%	72.7%					
Frederick	410	300	73.2%	608	8.7%	9.7%	16.0%	65.7%					
Garrett	17	14	82.4%	739	0.0%	7.1%	21.4%	71.4%					
Washington	324	242	74.7%	675	7.0%	9.5%	13.2%	70.2%					
Total	849	644	75.9%	646	7.5%	9.9%	14.1%	68.5%					

<u>Table 6 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018</u>

		Adult/Adolescent Total Living HIV Cases									
Jurisdiction of Current		Recent Viral Load Test Result									
Residence	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed						
Allegany	98	79	80.6%	88.6%	1,056						
Frederick	410	306	74.6%	87.3%	8,001						
Garrett	17	14	82.4%	100.0%							
Washington	324	242	74.7%	83.5%	2,043						
Total	849	641	75.5%	86.3%	4,030						

Section V - Cases by Age

<u>Table 7 – HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4</u> <u>Test Result by Age at HIV Diagnosis, Reported through June 30, 2018</u>

					Reported	HIV Diag	noses		
Age at HIV Diagnosis	Population	NI -	% of		Linked 1	to Care	Late HIV Diagnoses	First CD4 Test Result	
Diagnosis		No.	Total	Rate -	% 1 mo.	% 3 mo.	%	%	Median Count
<5 (Pediatric)	28,322	0	0.0%	0.0					
5-12 (Pediatric)	48,814	0	0.0%	0.0					
13-19	45,734	0	0.0%	0.0					
20-29	63,696	18	58.1%	28.3	88.9%	94.4%	0.0%	100.0%	535
30-39	63,688	4	12.9%	6.3	***	***	***	***	***
40-49	66,159	3	9.7%	4.5	***	***	***	***	***
50-59	73,987	4	12.9%	5.4	***	***	***	***	***
60+	113,048	2	6.5%	1.8	***	***	***	***	***
Total	503,448	31	100.0%	6.2	93.5%	96.8%	12.9%	93.5%	472

^{***} Data withheld due to low population counts and/or case counts

<u>Table 8 – HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018</u>

Age On			То	tal Living HIV Cases	5	
December 31, 2017	Population	No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	28,322	1	0.1	0	3.5	28,322
5-12	48,814	3	0.4	0	6.1	16,271
13-19	45,734	4	0.5	25	8.7	11,433
20-29	63,696	69	8.1	20.3	108.3	923
30-39	63,688	144	16.9	37.5	226.1	442
40-49	66,159	209	24.5	54.1	315.9	316
50-59	73,987	277	32.5	58.8	374.4	267
60+	113,048	146	17.1	62.3	129.1	774
Total	503,448	853	100	51.1	169.4	590

<u>Table 9 - CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018</u>

A = 0 O =		Adult/Adolescent Total Living HIV Cases											
Age On - December 31,		Recent CD4 Test Results											
2017	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+					
13-19	4	***	***	***	***	***	***	***					
20-29	69	***	***	***	***	***	***	***					
30-39	144	101	70.1%	694	10.9%	7.9%	9.9%	71.3%					
40-49	209	163	78.0%	627	12.9%	9.2%	10.4%	67.5%					
50-59	277	212	76.5%	645	4.7%	10.8%	16.5%	67.9%					
60+	146	113	77.4%	570	3.5%	15.9%	22.1%	58.4%					
Total	849	644	75.9%	646	7.5%	9.9%	14.1%	68.5%					

<u>Table 10 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018</u>

1	Adult/Adolescent Total Living HIV Cases										
Age On — December 31,			Recent Viral Load Test Result								
2017	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed						
13-19	4	***	***	***	***						
20-29	69	***	***	***	***						
30-39	144	99	68.8%	78.8%	6,292						
40-49	209	158	75.6%	81.0%	5,549						
50-59	277	216	78.0%	89.4%	969						
60+	146	111	76.0%	95.5%	675						
Total	849	641	75.5%	86.3%	4,030						

Section VI - Adult/Adolescent Cases by Demographics

<u>Table 11 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018</u>

	_			Adult/Ad	olescent R	eported H	IIV Diagnoses		
Demographic Characteristics	Population Age 13+	D1 -	% of	D-4-	Linked	to Care	Late HIV Diagnoses		04 Test sult
Cital acteristics	Age 15+	No.	Total	Rate	% 1 mo.	% 3 mo.	%	%	Median Count
Sex at Birth									
Male	213,111	23	74.2%	10.8	91.3%	95.7%	13.0%	95.7%	44!
Female	213,201	8	25.8%	3.8	100.0%	100.0%	12.5%	87.5%	472
Gender									
Male		23	74.2%		91.3%	95.7%	***	95.7%	44!
Female		8	25.8%		100.0%	100.0%	***	87.5%	47
Transgender Female		0	0.0%						-
Transgender Male		0	0.0%						-
Another Gender Identity		0	0.0%						-
Race/Ethnicity									
Hispanic	24,780	2	6.5%	8.1	***	***	***	***	**
Non-Hispanic	401,532	29	93.5%	7.2	93.1%	96.6%	***	93.1%	48
American Indian/Alaska Native, only	859	0	0.0%	0.0					
Asian, only	12,913	0	0.0%	0.0					-
Black, only	38,852	13	44.8%	33.5	84.6%	92.3%	***	92.3%	51
Native Hawaiian/Other Pacific Islander, only	225	0	0.0%	0.0					-
White, only	341,535	15	51.7%	4.4	100.0%	100.0%	***	93.3%	39
Multiracial/Other	7,149	1	3.4%	14.0	***	***	***	***	**
Total	426,312	31	100.0%	7.3	93.5%	96.8%	12.9%	93.5%	47
Country of Birth									
United States	384,708	28	90.3%	7.3	92.9%	96.4%	***	92.9%	47
Foreign-Born	32,239	2	6.5%	6.2	100.0%	100.0%	0.0%	***	**
Africa		1	50.0%		***	***	0.0%	***	**
Asia		0	0.0%						
Caribbean		0	0.0%						
Central America		0	0.0%						
Other		1	50.0%		***	***	0.0%	***	**
Unknown		1	3.2%		100.0%	100.0%	0.0%	100.0%	36
Total	416,947	31	100.0%	7.4	93.5%	96.8%	12.9%	93.5%	47

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

^{***} Data withheld due to low population and/or case counts

Table 12 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

		Ad	ult/Adolesc	ent Total Livi	ng HIV Case	es
Demographic Characteristics	Population Age 13+	No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Sex at Birth						
Male	213,111	598	70.4%	51.3%	280.6	356
Female	213,201	251	29.6%	51.4%	117.7	849
Gender						
Male		594	70.0%	51.2%		
Female		250	29.4%	51.6%		
Transgender Female		4	0.5%	75.0%		
Transgender Male		1	0.1%	0.0%		
Another Gender Identity		0	0.0%	0.0%		
Race/Ethnicity						
Hispanic	24,780	66	7.8%	53.0%	266.3	375
Non-Hispanic	401,532	783	92.2%	51.2%	195.0	512
American Indian/Alaska Native, only	859	1	0.1%	100.0%	116.4	859
Asian, only	12,913	5	0.6%	80.0%	38.7	2,582
Black, only	38,852	307	39.2%	55.4%	790.2	126
Native Hawaiian/Other Pacific Islander, only	225	0	0.0%	0.0%	0.0	
White, only	341,535	396	50.6%	46.7%	115.9	862
Multiracial/Other	7,149	74	9.5%	55.4%	1,035.2	96
Total	426,312	849	100.0%	51.4%	199.1	502
Country of Birth						
United States	384,708	736	86.7%	51.5%	191.3	522
Foreign-Born	32,239	68	8.0%	63.2%	210.9	474
Africa		43	63.2%	62.8%		
Asia		5	7.4%	60.0%		
Caribbean		2	2.9%	100.0%		
Central America		13	19.1%	53.8%		
Other		5	7.4%	80.0%		
Unknown		45	5.3%	31.1%		
Total	416,947	849	100.0%	51.4%	203.6	491

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

<u>Table 13 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018</u>

_			Adult/Ad	olescent To	tal Living l	HIV Cases		
Demographic Characteristics				Recent	CD4 Test	Result		
	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	598	441	73.7%	634	6.8%	11.3%	15.0%	66.9%
Female	251	203	80.9%	697	8.9%	6.9%	12.3%	71.9%
Gender								
Male	594	***	***	***	***	***	***	***
Female	250	***	***	***	***	***	***	***
Transgender Female	4	***	***	***	***	***	***	***
Transgender Male	1	***	***	***	***	***	***	***
Another Gender Identity	0							
Race/Ethnicity								
Hispanic	66	49	74.2%	576	10.2%	14.3%	10.2%	65.3%
Non-Hispanic	783	595	76.0%	652	7.2%	9.6%	14.5%	68.7%
American Indian/Alaska Native, only	1	***	***	***	***	***	***	***
Asian, only	5	***	***	***	***	***	***	***
Black, only	307	237	77.2%	609	6.8%	10.5%	18.1%	64.6%
Native Hawaiian/Other Pacific Islander, only	0							
White, only	396	291	73.5%	667	6.9%	8.6%	12.4%	72.2%
Multiracial/Other	74	64	86.5%	668	10.9%	10.9%	10.9%	67.2%
Country of Birth								
United States	736	569	77.3%	648	7.4%	10.2%	14.4%	68.0%
Foreign-Born	68	52	76.5%	561	7.7%	9.6%	15.4%	67.3%
Africa	43	35	81.4%	553	8.6%	11.4%	17.1%	62.9%
Asia	5	***	***	***	***	***	***	***
Caribbean	2	***	***	***	***	***	***	***
Central America	13	8	61.5%	644	0.0%	0.0%	12.5%	87.5%
Other	5	5	100.0%	838	20.0%	0.0%	0.0%	80.0%
Unknown	45	23	51.1%	777	8.7%	4.3%	4.3%	82.6%
Total	849	644	75.9%	646	7.5%	9.9%	14.1%	68.5%

^{***} Data withheld due to low population and/or case counts

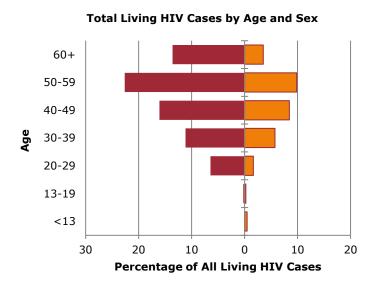
<u>Table 14 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018</u>

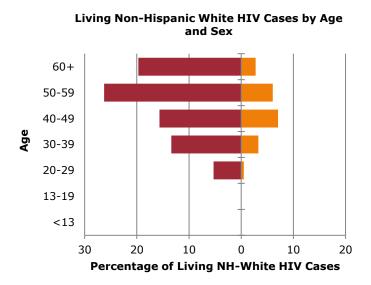
	Adult/Adolescent Total Living HIV Cases										
Demographic Characteristics			Recent Viral L	oad Test Result							
5,	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed						
Sex at Birth											
Male	598	438	73.2%	87.9%	4,95						
Female	251	203	80.9%	82.8%	3,102						
Gender											
Male	594	***	***	***	**:						
Female	250	***	***	***	**						
Transgender Female	4	***	***	***	**						
Transgender Male	1	***	***	***	**						
Another Gender Identity	0				-						
Race/Ethnicity											
Hispanic	66	49	74.2%	93.9%	1,00						
Non-Hispanic	783	592	75.6%	85.6%	4,95						
American Indian/Alaska Native, only	1	***	***	***	**						
Asian, only	5	***	***	***	**						
Black, only	307	232	75.6%	84.5%	4,03						
Native Hawaiian/Other Pacific Islander, only	0										
White, only	396	293	74.0%	88.1%	6,29						
Multiracial/Other	74	64	86.5%	78.1%	3,77						
Country of Birth											
United States	736	567	77.0%	85.7%	3,10						
Foreign-Born	68	53	77.9%	90.6%	5,07						
Africa	43	36	83.7%	91.7%	5,07						
Asia	5	***	***	***	**						
Caribbean	2	***	***	***	**						
Central America	13	8	61.5%	100.0%							
Other	5	5	100.0%	80.0%	1,12						
Unknown	45	21	46.7%	90.5%	89,12						
Total	849	641	75.5%	86.3%	4,03						

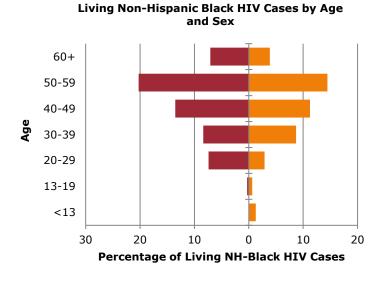
^{***} Data withheld due to low population and/or case counts

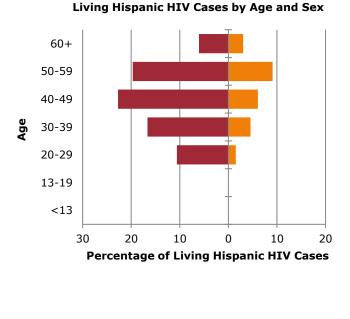
Section VII - HIV Cases by Expanded Demographics

<u>Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018</u>









Male

Female

<u>Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018</u>

		Total	Living Male HIV	Cases		
Age On			Total Males			
December 31, 2017		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	by Age Group
	Population	4,361	3,821	27,324	3,902	39,409
<13 (Pediatric)	Cases	0	0	0	0	0
<13 (rediatric)	Rate	0.0	0.0	0.0	0.0	0.0
	Ratio (1 in X)					
	Population	2,089	2,730	16,834	2,031	23,683
13-19	Cases	0	1	0	1	2
13-19	Rate	0.0	36.6	0.0	49.2	8.4
	Ratio (1 in X)		2,729		2,030	11,841
	Population	2,639	5,553	23,864	1,899	33,955
20.20	Cases	***	23	21	***	55
20-29	Rate	***	414.2	88.0	***	162.0
	Ratio (1 in X)	***	241	1,136	***	617
	Population	3,351	4,905	23,275	1,659	33,190
20.20	Cases	11	26	53	5	95
30-39	Rate	328.3	530.1	227.7	301.4	286.2
	Ratio (1 in X)	304	188	439	331	349
	Population	2,531	4,573	24,886	1,764	33,754
40-49	Cases	15	42	62	18	137
40-49	Rate	592.7	918.4	249.1	1,020.4	405.9
	Ratio (1 in X)	168	108	401	98	246
	Population	1,446	3,289	31,061	1,279	37,075
F0 F0	Cases	13	63	104	13	193
50-59	Rate	899.0	1,915.5	334.8	1,016.4	520.6
	Ratio (1 in X)	111	52	298	98	192
	Population	949	2,266	46,868	1,371	51,454
60.	Cases	***	22	78	***	116
60+	Rate	***	970.9	166.4	***	225.4
	Ratio (1 in X)	***	103	600	***	443
	Population	17,366	27,137	194,112	13,905	252,520
Total Males by	Cases	50	177	318	53	598
Race/Ethnicity	Rate	287.9	652.2	163.8	381.2	236.8

^{***} Data withheld due to low population counts and/or case counts

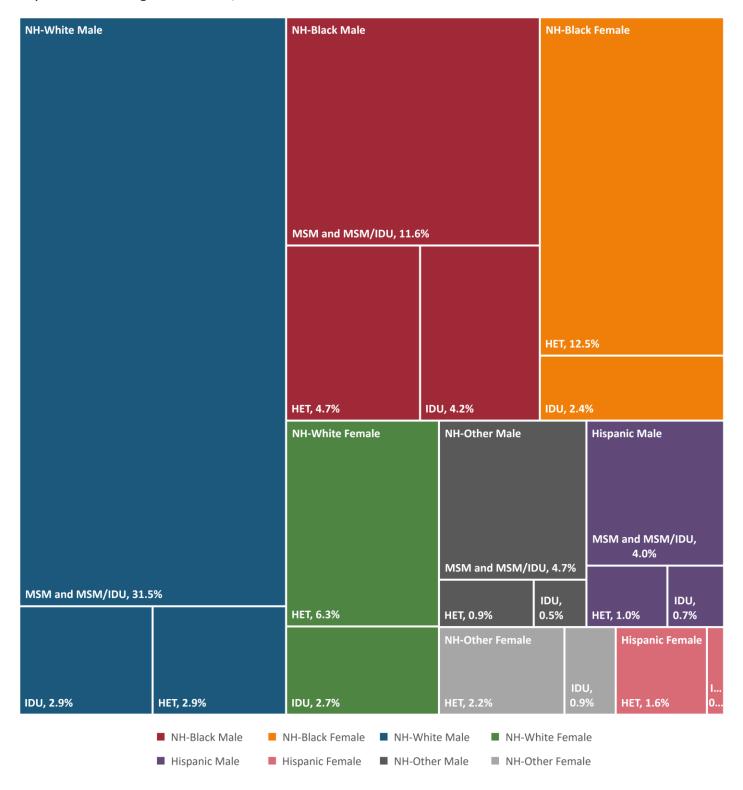
<u>Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018</u>

Total Living Female HIV Cases									
Age On			Race/Ethnicity						
December 31, 2017		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	Total Females by Age Group			
	Population	4,274	3,735	25,944	3,774	37,727			
<13 (Pediatric)	Cases	0	4	0	0	4			
<13 (Pediatric)	Rate	0.0	107.1	0.0	0.0	10.6			
	Ratio (1 in X)		933		25,680	9,431			
	Population	2,015	2,410	15,643	1,983	22,051			
12.10	Cases	0	2	0	0	2			
13-19	Rate	0.0	83.0	0.0	0.0	9.1			
	Ratio (1 in X)		1,205			11,025			
	Population	2,214	2,888	22,613	2,026	29,741			
20.20	Cases	1	9	2	2	14			
20-29	Rate	45.2	311.6	8.8	98.7	47.1			
	Ratio (1 in X)	2,214	320	11,306	1,013	2,124			
	Population	2,683	2,563	23,146	2,106	30,498			
	Cases	3	27	13	6	49			
30-39	Rate	111.8	1,053.5	56.2	284.9	160.7			
	Ratio (1 in X)	894	94	1,780	351	622			
	Population	2,283	2,690	25,484	1,948	32,405			
40.40	Cases	4	35	28	5	72			
40-49	Rate	175.2	1,301.1	109.9	256.7	222.2			
	Ratio (1 in X)	570	76	910	389	450			
	Population	1,389	2,371	31,684	1,468	36,912			
	Cases	6	45	24	9	84			
50-59	Rate	432.0	1,897.9	75.7	613.1	227.6			
	Ratio (1 in X)	231	52	1,320	163	439			
	Population	1,191	2,614	56,177	1,612	61,594			
	Cases	2	12	11	5	30			
60+	Rate	167.9	459.1	19.6	310.2	48.7			
	Ratio (1 in X)	595	217	5,107	322	2,053			
	Population	16,049	19,271	200,691	14,917	250,928			
Total Females by	Cases	16	134	78	27	255			
Race/Ethnicity	Rate	99.7	695.3	38.9	181.0	101.6			
	Ratio (1 in X)	1,003	143	2,572	552	984			
		· · · · · · · · · · · · · · · · · · ·							

^{***} Data withheld due to low population counts and/or case counts

Section VIII - HIV Exposure Category

<u>Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017, Reported through June 30, 2018</u>



Note. Other exposure category and perinatal transmission not shown (<2 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

<u>Table 17 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018</u>

	Adult/Adolescent Reported HIV Diagnoses						
Estimated or Reported Exposure Category	N	% of	Linked t	o Care	Late HIV Diagnoses		D4 Test sult
category	No.	Total	% 1 mo.	% 3 mo.	%	%	Median Count
Male-to-male Sexual Contact (MSM)	18	57.1%	94.4%	94.4%	16.9%	94.4%	482
Injection Drug Use (IDU)	0	1.3%					
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	3	9.7%	***	***	***	***	***
Heterosexual Contact (HET)	9	28.7%	100.0%	100.0%	***	88.8%	399
Perinatal Transmission	1	3.2%	***	***	***	***	***
Other Exposures	0	0.0%					
No Estimated or Reported Exposure	0	0.0%					
Total	31	100.0%	93.5%	96.8%	12.9%	93.5%	472
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	18	77.0%	94.4%	94.4%	16.9%	94.4%	482
Injection Drug Use (IDU)	0	0.9%					
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	3	13.0%	***	***	***	***	***
Heterosexual Contact (HET)	1	4.8%	***	***	***	***	***
Perinatal Transmission	1	4.3%	***	***	***	***	***
Other Exposures	0	0.0%					
No Estimated or Reported Exposure	0	0.0%					
Total	23	100.0%	91.3%	95.7%	13.0%	95.7%	445
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	0	2.5%					
Heterosexual Contact (HET)	8	97.5%	100.0%	100.0%	***	87.2%	472
Perinatal Transmission	0	0.0%					
Other Exposures	0	0.0%					
No Estimated or Reported Exposure	0	0.0%					
Total	8	100.0%	100.0%	100.0%	***	87.5%	472

Note. Data for 2017 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

^{***} Data withheld due to low population and/or case counts

<u>Table 18 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by</u>
<u>Estimated or Reported Exposure Category and Sex at Birth, Reported through June</u>
30, 2018

	Adult/Adolescent Total Living HIV Cases				
Estimated or Reported Exposure Category	No.	% of Total	% Living with AIDS		
Male-to-male Sexual Contact (MSM)	396	46.6%	44.7%		
Injection Drug Use (IDU)	125	14.7%	61.9%		
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	45	5.3%	66.0%		
Heterosexual Contact (HET)	272	32.0%	53.1%		
Perinatal Transmission	6	0.7%	66.7%		
Other Exposures	2	0.2%	100.0%		
No Estimated or Reported Exposure	4	0.5%	50.0%		
Total	849	100.0%	51.4%		
Male Estimated or Reported Exposure Category					
Male-to-male Sexual Contact (MSM)	396	66.1%	44.7%		
Injection Drug Users (IDU)	71	11.9%	70.3%		
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	45	7.5%	66.0%		
Heterosexual Contact (HET)	81	13.5%	57.8%		
Perinatal Transmission	4	0.7%	75.0%		
Other Exposures	1	0.2%	100.0%		
No Estimated or Reported Exposure	1	0.2%	0.0%		
Total	598	100.0%	51.3%		
Female Estimated or Reported Exposure Category					
Injection Drug Use (IDU)	54	21.4%	50.8%		
Heterosexual Contact (HET)	191	76.2%	51.1%		
Perinatal Transmission	2	0.8%	50.0%		
Other Exposures	1	0.4%	100.0%		
No Estimated or Reported Exposure	3	1.2%	66.7%		
Total	251	100.0%	51.4%		

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

<u>Table 19 – Adult/Adolescent Total Living HIV Cases by Estimated or Reported</u>
<u>Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017</u>
<u>and Reported through June 30, 2018</u>

_	Adult/Adolescent Total Living HIV Cases							
Estimated or Reported Exposure –	Race/Ethnicity							
Category	His	spanic	Non-Hispar	nic, Black, only	Non-Hispanic, White, only			
	No.	% of Total	No.	% of Total	No.	% of Total		
Male-to-male Sexual Contact (MSM)	30	45.2%	85	27.7%	244	61.6%		
Injection Drug Use (IDU)	9	13.3%	57	18.5%	48	12.0%		
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	4	6.4%	14	4.4%	24	5.9%		
Heterosexual Contact (HET)	22	33.6%	146	47.5%	78	19.7%		
Perinatal Transmission	1	1.5%	3	1.0%	1	0.3%		
Other Exposures	0	0.0%	0	0.0%	1	0.3%		
No Estimated or Reported Exposure	0	0.0%	3	1.0%	1	0.3%		
Total	66	100.0%	307	100.0%	396	100.0%		
Male-to-male Sexual Contact (MSM) Injection Drug Use (IDU) Male-to-male Sexual Contact and	30 6	59.6% 12.6%	85 36	48.0%	244 25	76.7% 7.8%		
Injection Drug Use (IDU)	6	12.6%	36	20.3%	25	7.8%		
Injection Drug Use (MSM/IDU)	4	8.4%	14	7.7%	24	7.4%		
Heterosexual Contact (HET)	9	17.4%	40	22.3%	25	7.8%		
Perinatal Transmission	1	2.0%	2	1.1%	0	0.0%		
Other Exposures	0	0.0%	0	0.0%	1	0.3%		
No Estimated or Reported Exposure	0	0.0%	1	0.6%	0	0.0%		
Total	50	100.0%	177	100.0%	318	100.0%		
Female Estimated or Reported Exposure Category								
Injection Drug Use (IDU)	3	15.6%	21	16.0%	23	29.1%		
Heterosexual Contact (HET)	14	84.4%	106	81.7%	53	68.3%		
Perinatal Transmission	0	0.0%	1	0.8%	1	1.3%		
Other Exposures	0	0.0%	0	0.0%	0	0.0%		
No Estimated or Reported Exposure	0	0.0%	2	1.5%	1	1.3%		
Total	16	100.0%	130	100.0%	78	100.0%		

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

<u>Table 20 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on</u>
<u>December 31, 2017, by Estimated or Reported Exposure Category, Reported through</u>
June 30, 2018

			Adult/Add	olescent Tot	al Living	HIV Cases			
Estimated or Reported Exposure		Recent CD4 Test Results							
Category	No.	No. with Test	% with Test	Median Count	<200	200-349	350- 499	500+	
Male-to-male Sexual Contact (MSM)	396	286	72.2%	648	6.0%	9.9%	13.1%	71.0%	
Injection Drug Use (IDU)	125	95	76.6%	627	5.2%	12.7%	17.4%	64.7%	
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	45	35	78.2%	634	5.7%	14.5%	11.6%	68.2%	
Heterosexual Contact (HET)	272	218	80.1%	652	10.6%	8.4%	14.6%	66.3%	
Perinatal Transmission	6	5	83.3%	916	0.0%	0.0%	0.0%	100.0%	
Other Exposures	2	2	100.0%	603	0.0%	0.0%	0.0%	100.0%	
No Estimated or Reported Exposure	4	3	75.0%	387	33.3%	0.0%	33.3%	33.3%	
Total	849	644	75.9%	646	7.5%	9.9%	14.1%	68.5%	

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

<u>Table 21 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018</u>

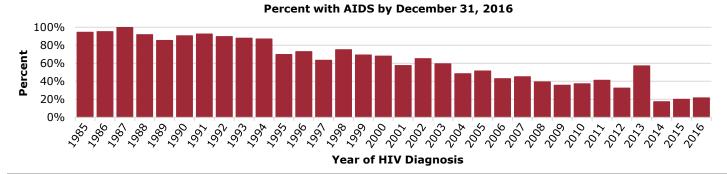
	Adult/Adolescent Total Living HIV Cases						
Estimated or Reported Exposure			Recent Viral	Load Test Results	1		
Category	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed		
Male-to-male Sexual Contact (MSM)	396	291	73.5%	88.6%	2,030		
Injection Drug Use (IDU)	125	85	68.4%	76.6%	5,596		
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	45	36	80.2%	80.1%	14,834		
Heterosexual Contact (HET)	272	218	80.2%	87.7%	3,102		
Perinatal Transmission	6	6	100.0%	100.0%			
Other Exposures	2	2	100.0%	100.0%			
No Estimated or Reported Exposure	4	3	75.0%	66.7%	29,061		
Total	849	641	75.5%	86.3%	4,030		

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section IX - Disease Progression and Mortality

<u>Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2016, Reported through June 30, 2018</u>

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by December 31, 2017, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018

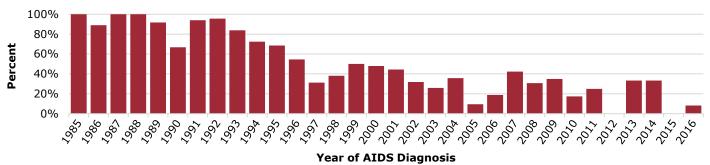


_	Adult/Adolescent Reported HIV Diagnoses							
Year of HIV		Re	ported AIDS Diag	jnoses	Percei		S by Years A gnosis	fter HIV
пі v Diagnosis	No.			Mean Years				
Diagnosis		No.	% with AIDS	from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	9	9	100.0%	6.0	55.6%	55.6%	55.6%	66.7%
1985	18	17	94.4%	7.2	22.2%	27.8%	44.4%	66.7%
1986	21	20	95.2%	4.5	47.6%	52.4%	57.1%	81.0%
1987	27	27	100.0%	4.6	44.4%	48.1%	59.3%	85.2%
1988	24	22	91.7%	5.1	41.7%	50.0%	62.5%	66.7%
1989	41	35	85.4%	2.9	48.8%	53.7%	65.9%	78.0%
1990	32	29	90.6%	4.3	25.0%	37.5%	68.8%	78.1%
1991	40	37	92.5%	3.1	50.0%	57.5%	72.5%	80.0%
1992	39	35	89.7%	2.9	41.0%	56.4%	76.9%	82.1%
1993	41	36	87.8%	2.2	56.1%	65.9%	78.0%	80.5%
1994	23	20	87.0%	2.2	60.9%	69.6%	73.9%	82.6%
1995	33	23	69.7%	2.8	45.5%	48.5%	51.5%	66.7%
1996	37	27	73.0%	2.5	45.9%	48.6%	62.2%	67.6%
1997	30	19	63.3%	3.5	36.7%	40.0%	43.3%	56.7%
1998	32	24	75.0%	1.5	62.5%	65.6%	65.6%	68.8%
1999	26	18	69.2%	2.7	42.3%	42.3%	61.5%	61.5%
2000	28	19	67.9%	2.4	46.4%	46.4%	57.1%	60.7%
2001	40	23	57.5%	1.6	40.0%	42.5%	50.0%	57.5%
2002	43	28	65.1%	2.7	37.2%	37.2%	55.8%	60.5%
2003	32	19	59.4%	2.0	40.6%	43.8%	46.9%	59.4%
2004	31	15	48.4%	1.1	41.9%	41.9%	45.2%	48.4%
2005	33	17	51.5%	1.5	33.3%	42.4%	45.5%	48.5%
2006	35	15	42.9%	1.5	28.6%	34.3%	40.0%	40.0%
2007	51	23	45.1%	0.5	41.2%	41.2%	45.1%	45.1%
2008	71	28	39.4%	1.4	28.2%	29.6%	35.2%	
2009	28	10	35.7%	1.2	28.6%	28.6%	32.1%	
2010	43	16	37.2%	0.7	32.6%	32.6%	34.9%	
2011	34	14	41.2%	0.6	38.2%	38.2%	38.2%	
2012	34	11	32.4%	0.9	26.5%	26.5%	29.4%	
2013	28	16	57.1%	0.4	50.0%	50.0%		
2014	23	4	17.4%	0.0	17.4%	17.4%		
2015	25	5	20.0%	0.4	20.0%	20.0%		
2016	23	5	21.7%	0.3	17.4%			
Total	1,075	666	62.0%	2.6	39.1%	42.7%	50.8%	56.8%
	•							

<u>Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2016, Reported through June 30, 2018</u>

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by December 31, 2017 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by December 31, 2017, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018





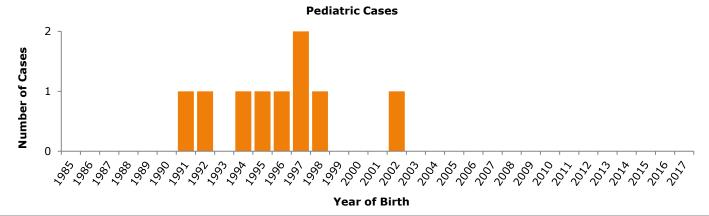
		Adult/Adolescent Reported AIDS Diagnoses						
Year of		Repo	rted AIDS De	eaths	Percent A	live by Years	After AIDS D	iagnosis
AIDS				Mean				
Diagnosis	No.	No.	% Dead	Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	5	5	100.0%	1.5	40.0%	20.0%	20.0%	0.0%
1985	3	3	100.0%	1.0	66.7%	0.0%	0.0%	0.0%
1986	9	8	88.9%	0.7	22.2%	11.1%	11.1%	11.1%
1987	13	13	100.0%	1.2	38.5%	23.1%	7.7%	0.0%
1988	13	13	100.0%	2.1	69.2%	23.1%	15.4%	0.0%
1989	24	22	91.7%	3.2	70.8%	45.8%	25.0%	12.5%
1990	6	4	66.7%	5.0	83.3%	66.7%	50.0%	50.0%
1991	33	31	93.9%	3.0	75.8%	51.5%	27.3%	15.2%
1992	22	21	95.5%	4.4	77.3%	63.6%	27.3%	22.7%
1993	37	31	83.8%	3.7	75.7%	59.5%	29.7%	24.3%
1994	29	21	72.4%	3.9	82.8%	48.3%	44.8%	37.9%
1995	35	24	68.6%	6.7	82.9%	77.1%	68.6%	51.4%
1996	22	12	54.5%	6.8	86.4%	86.4%	81.8%	59.1%
1997	16	5	31.3%	6.4	100.0%	93.8%	87.5%	75.0%
1998	21	8	38.1%	7.0	95.2%	95.2%	85.7%	66.7%
1999	22	11	50.0%	6.3	100.0%	90.9%	81.8%	54.5%
2000	25	12	48.0%	6.4	84.0%	84.0%	76.0%	72.0%
2001	27	12	44.4%	5.9	96.3%	92.6%	77.8%	63.0%
2002	22	7	31.8%	3.1	86.4%	86.4%	72.7%	68.2%
2003	27	7	25.9%	4.5	88.9%	88.9%	88.9%	74.1%
2004	14	5	35.7%	7.6	100.0%	100.0%	92.9%	78.6%
2005	21	2	9.5%	5.5	95.2%	95.2%	95.2%	95.2%
2006	16	3	18.8%	4.1	93.8%	93.8%	87.5%	81.3%
2007	26	11	42.3%	5.0	92.3%	92.3%	84.6%	57.7%
2008	26	8	30.8%	4.4	88.5%	88.5%	88.5%	
2009	20	<u></u>	35.0%	4.0	90.0%	90.0%	85.0%	
2010	23	4	17.4%	3.5	95.7%	91.3%	91.3%	
2011	16	4	25.0%	1.8	87.5%	87.5%	75.0%	
2012	14	0	0.0%		100.0%	100.0%	100.0%	
2013	24	8	33.3%	0.4	75.0%	66.7%		
2014	6	2	33.3%	0.2	66.7%	66.7%		
2015	5	0	0.0%		100.0%	100.0%		
2016*	12	1	8.3%	0.8	91.7%			
Total	634	325	51.3%	4.1	84.2%	75.6%	65.8%	54.7%
*2016 ATDS			J = . J 70		3 70	, 5.5,6	00.070	2 ,0

^{*2016} AIDS deaths are preliminary

Section X - Pediatric Cases

<u>Figure 13 – Trends in Pediatric HIV Cases, 1985-2017, Reported through June 30, 2018</u>

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2017, as Reported by Name through June 30, 2018



Vanu		Pediatric Reporte	d HIV Diagnoses		Pediatric Total Living HIV Cases
Year	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on December 31st of Each Year
<1985	3	0	0	0	
1985	0	1	0	0	1
1986	0	1	0	0	2
1987	0	0	0	0	2 3
1988	0	1	0	0	3
1989	0	0	1	0	3
1990	0	0	0	0	3
1991	1	0	0	1	4
1992	1	1	1	0	5
1993	0	1	1	0	6
1994	1	0	1	2	4
1995	1	1	0	0	5
1996	1	1	1	1	5 5 7
1997	2	2	0	0	
1998	1	0	0	0	7
1999	0	0	0	0	7
2000	0	0	0	0	7
2001	0	0	0	0	7
2002	1	0	0	0	7
2003	0	0	0	0	7
2004	0	0	0	0	7
2005	0	0	1	0	6
2006	0	0	0	0	6
2007	0	1	0	0	7
2008	0	2	0	0	9
2009	0	0	0	0	9_
2010	0	0	0	0	9
2011	0	0	0	0	9
2012	0	0	0	1	9
2013	0	0	0	0	10
2014	0	0	0	1	9
2015	0	0	0	0	9
2016	0	0	0	0	9
2017	0	0	0	0	9
Total	12	12	6	6	

<u>Table 22 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018</u>

Jurisdiction of Current Residence	Current Pediatric Total Living HIV Cases				
Jurisdiction of Current Residence	No.	% of Total			
Allegany	0	0.0%			
Frederick	0	0.0%			
Garrett	0	0.0%			
Washington	0	0.0%			
Total	0	0.0%			

<u>Table 23 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2018</u>

B	Current Pediatric To	otal Living HIV Cases
Demographic Characteristic ————	No.	% of Total
Sex at Birth		
Male	0	0.0%
Female	0	0.0%
Race/Ethnicity		
Hispanic	0	0.0%
Non-Hispanic	0	0.0%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	0	0.0%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	0	0.0%
Multiracial/Other	0	0.0%
Total	0	0.0%

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: people's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for July 1, 2017.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2017.

Rate: Number of HIV cases divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Transgender Female: A person whose sex assigned at birth is male but whose gender identity is female.

Transgender Male: A person whose sex assigned at birth is female but whose gender identity is male.

Another Gender Identity: Additional gender identities or gender expressions.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.